



INOGENI CAM230 Multi Camera Switcher User Guide

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CAM230 Multi Camera Switcher



INOGENI CAM230 User Guide



User guide

VERSION HISTORY

Version	Date	Description
1	12-Apr-23	First release.
1.1	2-Jun-23	<ul style="list-style-type: none">Added new REMOTE connectivity.Added power consumption limit for USB cameras.Added RCM statement.Added minor modifications to RESTAPI.Added firmware update procedure.
1.2	15-Aug-23	<ul style="list-style-type: none">Added information for future mounting options.Specified M2.5 mounting holes on enclosure.Added information for RS232 command delimiters.Added more precision regarding the “disableSerialInterface” command over RESTAPI.Added UKCA statement.Simplified RESTAPI presentation.
1.3	25-Sep-23	<ul style="list-style-type: none">Adding the “Auto (disable remote)” video switching mode.Adding the “Audio follows video” audio switching mode.
1.4	14-Aug-24	<ul style="list-style-type: none">Adding description on REST API token format.Adding missing commands over RESTAPI and RS232.

TYPICAL APPLICATION

Here is a typical connection diagram used for the CAM230 device in a videoconferencing setup.

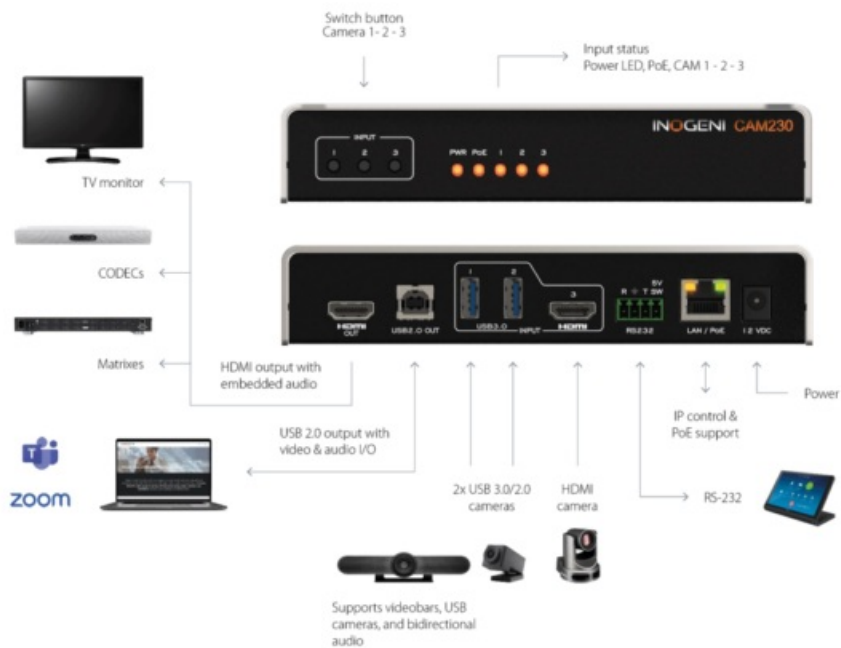


Figure 1: Common use case

BLOCK DIAGRAM

Here is a simple block diagram to better understand the usage of the product.

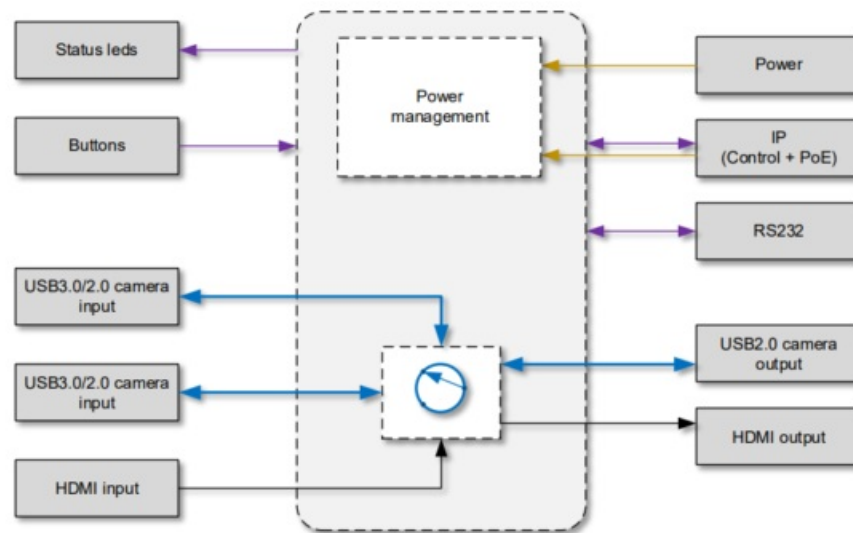


Figure 2: Basic block diagram

The device embeds a video switch that can connect to USB3.0/2.0 and HDMI cameras. The device will output video content from the selected source over HDMI and USB2.0 outputs simultaneously. This can give you a great asset to your videoconferencing equipment to switch camera interface easily without going into your UC settings.

AUDIO ROUTING

The device can connect to USB microphones/speakerphones and on a HDMI feed that includes audio. These sources can be sent over the HDMI output and to the USB2.0 output.

The USB2.0 interface embeds a digital audio interface which implements a microphone and a speaker device. Ultimately, the UC software connected to the USB2.0 camera interface can receive and transmit audio from/to the connected USB videobar.

DEVICE INTERFACES

Here are the devices interfaces.



Figure 3: Front side connections

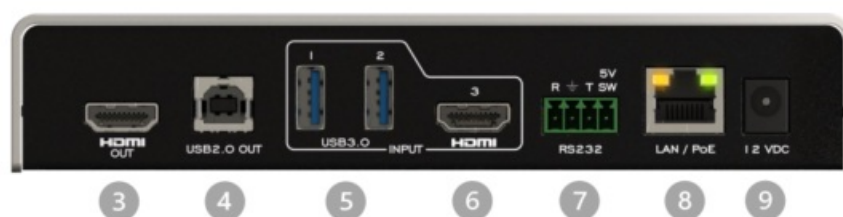


Figure 4: Back side connections

1. Input selection buttons
2. Input status LEDs

3. HDMI output
4. USB2.0 camera output
5. USB3.0 camera inputs
6. HDMI camera input
7. RS232 and remote interface
8. LAN/PoE interface
9. +12VDC power input

LEDS BEHAVIOR

Here are the LEDs behavior:

Power input	
OFF	No power.
SOLID	Device is powered up.
PoE	
OFF	Not powered from PoE.
SOLID	Powered from PoE.
Input led	
OFF	Input not detected and not selected.
LOW	Input detected and not selected.
HIGH	Input selected.

SPECIFICATIONS

Here is the complete specification.

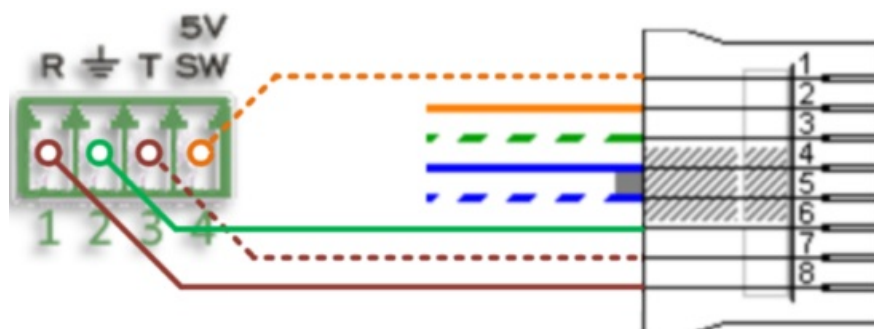
Physical details	
Dimensions (W x L x H)	17.33 cm x 11.57 cm x 3.26 cm 6.82" x 4.55" x 1.28"
Power supply	12V (100-240 VAC 50/60Hz to 12V/1.2A DC) – or – PoE source compliant with IEEE 802.3af (802.3at Type 1)
Weight	600 g
Package content	1 x USB 2.0 Type-B to Type-A cable (3ft). 1 x terminal block connection. 1 x 12V power supply.
Operating temperature	0° to 45° C (32° to 113° F)
Storage temperature	-40° to 105° C (-40° to 221° F)
Relative humidity	0% to 90% non-condensing

Mounting options	Ability to mount under the table or on a wall. More details will follow shortly
UPC code	51497302825
Origin	Canada
Warranty	2 years
USB inputs	
2x USB 3.0 inputs	1x USB 3.0/2.0 camera Uncompressed, YUYV/NV12/I420 – 1080p30 MJPEG – 1080p30
USB Power	Up to 1.2A shared between the USB ports
HDMI input	
Resolution	1080p50/60 fps, 720p50/60 fps
Connector	HDMI
HDMI output	
Resolution	3840x2160p23.98/24/25/29.97/30 fps, 1080p50/60 fps, 720p50/60 fps
Connector	HDMI
USB output	
USB connector	1x USB 2.0 Type-B UVC interface up to 1080p30 MJPEG. UAC interface with audio I/O. PTZ control supported.
Audio	
Digital audio I/O	Embedded in HDMI or USB
Control	
Control options	Front buttons RS-232 LAN USB
IP interface	100 Mbps half-duplex (autonegotiation not supported) Supports DHCP or static IP addressing
RS232 interface	Baud rate: 9600 Data bits: 8 Stop bits: 1 Parity: None Flow control: None
Certifications	
HDCP compliant	The device does not decrypt BD/DVD movies, satellite/cable receivers or other encrypted sources.
Certifications	FCC, CE, UKCA, RoHS, IEC62368, SoV, RCM
TAA-compliant	Yes

Compatibility	
Operating system	NO driver installation necessary Windows 7 and above (32/64-bit) macOS 10.10 and above Linux (kernel v2.6.38 and above)
Cameras Supported	Cameras (or video Source) with a HDMI or USB outputs
Software Compatibility	UVC-compliant. Runs with all software compatible to DirectShow/MediaFoundation, V4L2, QuickTime and AVFoundation.

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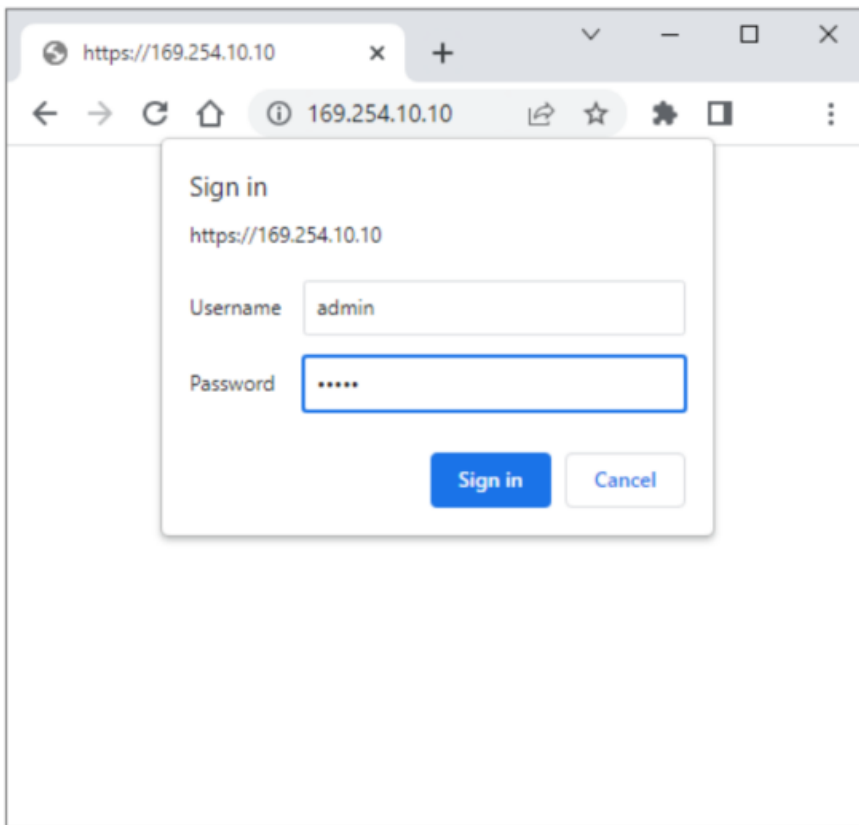
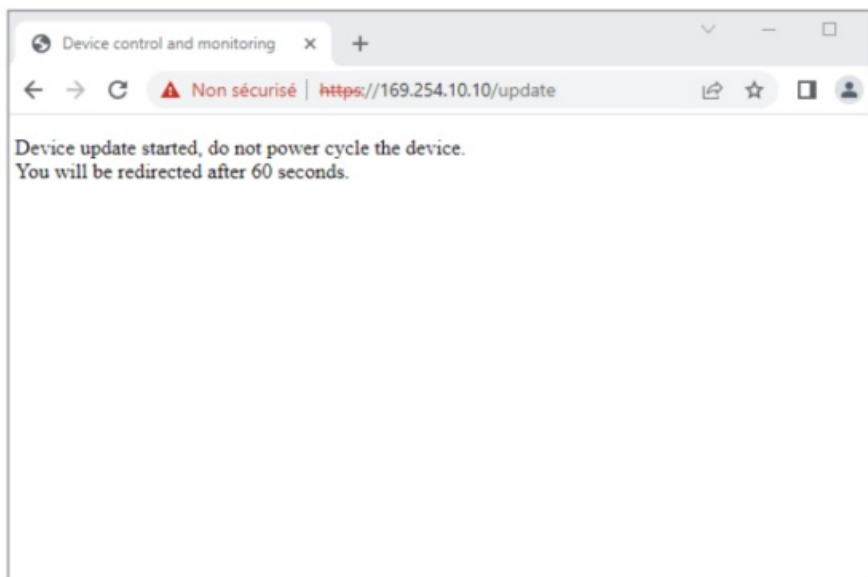
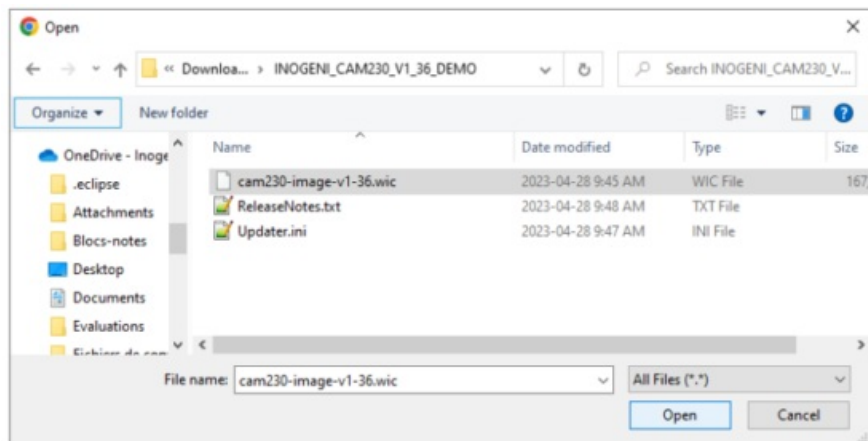




Figure 7: System preview



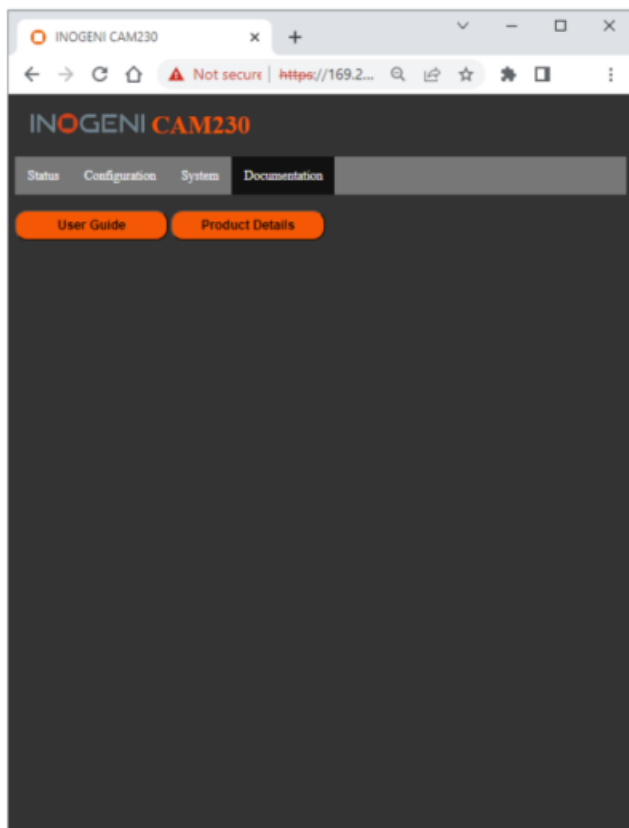


Figure 8: Documentation preview

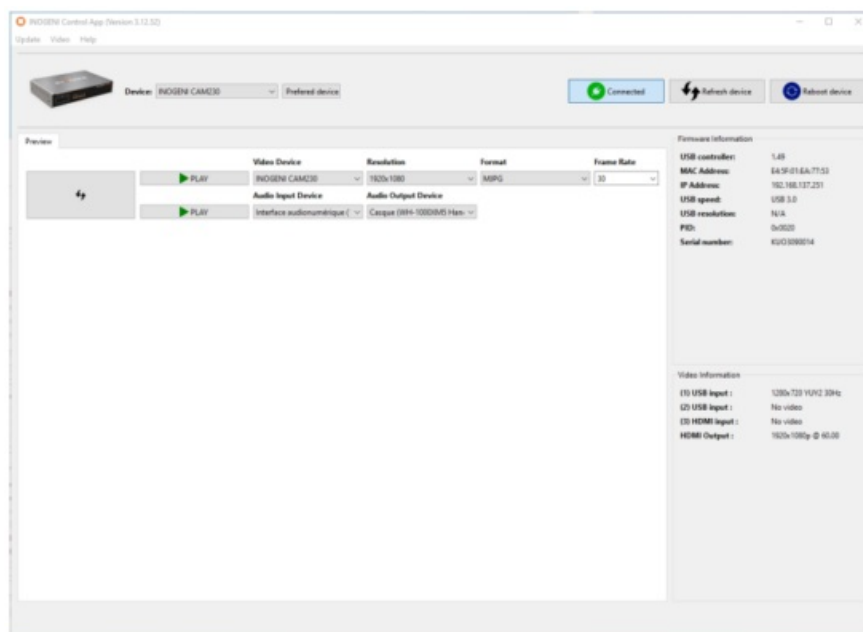


Figure 9: INOGENI Control App preview

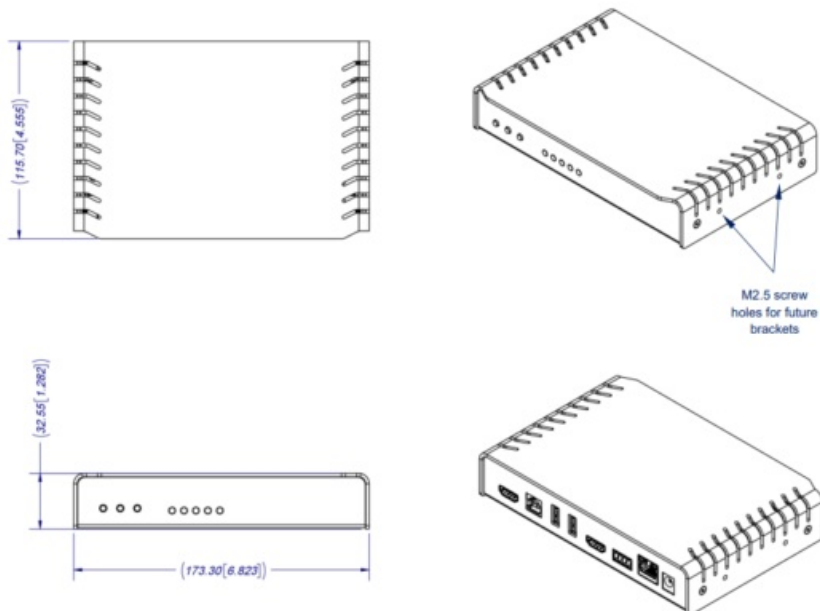


Figure 10: Top plate dimensions

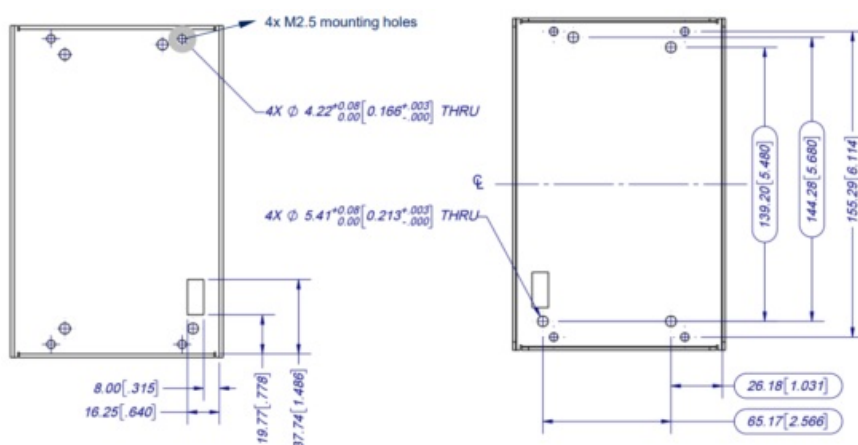



Figure 11: Bottom plate dimensions and holes positions



Documents / Resources

 <p>INOGENI CAM230 User Guide</p>	<p>INOGENI CAM230 Multi Camera Switcher [pdf] User Guide CAM230, CAM230 Multi Camera Switcher, Multi Camera Switcher, Camera Switcher, Switcher</p>
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References

- [Compatible USB extenders INOGENI](#)
- [User Manual](#)

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